

ADDFIELD PET-200 CREMATOR
Sound Level Measurements

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Measurements of the sound emissions from the Addfield PET-200 Cremator have been undertaken within the semi-reverberant environment in the Addfield factory. All measurements have been undertaken with a calibrated Class 1 sound level meter. All fans of the Cremator were operating at full duty during the measurements. The measurements were undertaken in the centre of the factory floor (single reflecting plane).

Sound power levels have been determined of the plant as a whole in general accordance with the methodology of BS EN ISO 3744-2010 using a traverse microphone method.

Induct sound power levels of the chimney have been determined in general accordance with the methodology of BS EM ISO 5136-2003 using a traverse microphone method.

	Octave Band Centre Frequency (Hz)								dB(A)
	Sound Power Level, L_w (dB)								
	63	125	250	500	1k	2k	4k	8k	
PET-200 Casing Radiated	73	76	78	77	76	73	67	64	80
PET-200 Chimney	64	69	62	52	42	36	36	32	57

Table 1.1 – Measured Sound Power of PET-200 Cremator

The sound pressure level of the plant has been measured at a distance of 5m to the side of the unit.

	Octave Band Centre Frequency (Hz)								dB(A)
	Sound Pressure, $L_p@5m$ (dB)								
	63	125	250	500	1k	2k	4k	8k	
PET-200 Casing Radiated	53	51	53	54	53	50	43	39	57

Table 1.2 – Measured Sound Pressure level of PET-200 Cremator

Third octave measurement results are provided on the attached chart.

All measurements have been corrected for background noise. Measurements have not been corrected for reverberation within the factory.

PET-200

1/3 Octave Measurement Data

